

s/n: 10/700,068
date: 10-18-05

2597 ((359/642,668) or (385/33)).CCLS.	US_PGPUB; USPAT; USOCR; IBM_TDB	10/18/05 18:31
874 (359/642,668).CCLS.	US_PGPUB; USPAT; USOCR; IBM_TDB	10/18/05 18:31
1739 (385/33).CCLS.	US_PGPUB; USPAT; USOCR; IBM_TDB	10/18/05 18:43
13 ("3761184" "4671625" "4832464").PN. OR ("5031991").URPN.	US_PGPUB; USPAT; USOCR;	10/18/05 18:48
7646 ((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.	US_PGPUB; USPAT; USOCR; IBM_TDB	10/18/05 19:38
319310 @ad>="20040908"	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	10/18/05 19:39
1071 6 and (lens with fiber)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	10/18/05 19:40
21 7 and ((focal near2 point) same aperture) (optical and focal and point and numerical and aperture and fiber 65 and distance).clm.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	10/18/05 19:41
6100 ((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.	US_PGPUB; USPAT; USOCR; IBM_TDB	10/18/05 19:38
((numerical adj aperture) with divid\$4 with equal with (focal adj 0 point))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/4/05 14:48
88716 (substantially adj equal).clm.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/4/05 14:48
319 S76 and S81 S76 and ((numerical adj aperture) with divid\$4 with equal with 0 (focaladjpoint))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/4/05 14:48
0 ((numerical adj aperture) with divid\$4 with equal with (focaladjpoint) ("6and((numericaladjaperture)withdivid\$4withequalwith(focaladjpoint 0))").PN.	US_PGPUB; USPAT; USOCR; IBM_TDB	5/4/05 14:35
7185 ((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.	US_PGPUB; USPAT; USOCR; IBM_TDB	5/4/05 14:34
385 master adj oscillator adj power adj amplifier	US_PGPUB; USPAT; IBM_TDB	5/4/05 14:33
551 (master adj oscillator adj power adj amplifier) or MOPA	US_PGPUB; USPAT; IBM_TDB	9/1/04 15:48
((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.) 12 and ((master adj oscillator adj power adj amplifier) or MOPA)	US_PGPUB; USPAT; IBM_TDB	9/1/04 15:48

((master adj oscillator adj power adj amplifier) and (fiber same focus)) and (planar same waveguide)	US-PGPUB; USPAT; IBM_TDB	9/1/04 15:45
(((master adj oscillator adj power adj amplifier) and (fiber same focus)) and (planar same waveguide)) not (((master adj oscillator adj power adj amplifier) and (fiber same focus same collimat\$5)) 3 and (planar same waveguide))	US-PGPUB; USPAT; IBM_TDB	9/1/04 15:45
((master adj oscillator adj power adj amplifier) and (fiber same focus 4 same collimat\$5)) and (planar same waveguide)	US-PGPUB; USPAT; IBM_TDB	9/1/04 15:44
(master adj oscillator adj power adj amplifier) and (fiber same focus 13 same collimat\$5)	US-PGPUB; USPAT; IBM_TDB	9/1/04 15:42
46 (master adj oscillator adj power adj amplifier) and (fiber same focus)	US-PGPUB; USPAT; IBM_TDB	9/1/04 15:12
204 (master adj oscillator adj power adj amplifier) and fiber 6 5701373.URPN.	US-PGPUB; USPAT; IBM_TDB. USPAT	9/1/04 15:10 9/1/04 13:13
10 5031991.URPN.	USPAT	9/1/04 13:05
3 ("3761184" "4671625" "4832464").PN.	USPAT	9/1/04 13:05
10 5031991.URPN.	USPAT	9/1/04 11:14
("Re33722" "4143940" "4203652" "4243399" "4253724" "4307409" "4327963" "4337531" "4370021" "4440470" "4495704" "4639075" "4674011" "4701013" "4708426" "4720632" "4722081" "4763979" "4775214" "4780877" "4784466" "4786132" "4799210" "4807954" "4832469" "4919506" "4921320" "4931637" "4948221" "4955025" "4966444" "4969702" "5031991" "5046817" "5054878" "5066092" "5080506" "5080706" "5088803" "5108167" "5140608" "5151810" "5181224" "5224111" "5237348"		
46 "5256851").PN.	USPAT	9/1/04 11:09
10 5031991.URPN.	USPAT	9/1/04 11:08
optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5		
242 with focus\$5 (((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.) and (optical with (coupl\$5 or align\$5) with lens with fiber with	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:05
65 collimat\$5 with focus\$5 (optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:05
1 with focus\$5) with spherical with cylind\$5	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:04
4 amorphic with spherical with cylind\$5 (optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:04
0 with focus\$5) with sperical with cylind\$5 ((collimat\$5 with focus) and fiber and (axis or (vertical same	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:03
10 lateral))) and (master adj oscillator adj power adj amplifier)	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:02
18217 optical adj coupl\$5	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:02
114318 optical with (coupl\$5 or align\$5)	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:02
5863 optical with (coupl\$5 or align\$5) with lens with fiber	US-PGPUB; USPAT; IBM_TDB	9/1/04 11:02
5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN.	USPAT	9/1/04 11:01
1 ((anamorphic adj lens).ti.) and (collimat\$5 same focus)	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:58
31 (anamorphic adj lens).ti.	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:51
36 spherical with collimate with focus	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:50

((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.) and ((collimat\$5 with focus) and fiber and (axis or (vertical same 244 lateral)))	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:45
1580 (collimat\$5 with focus) and fiber and (axis or (vertical same lateral)) (spherical with collimat\$5 with lens) and (anamorph\$5 with focus 13 with lens)	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:43
4978 collimat\$5 with focus	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:42
1390 spherical with collimat\$5 with lens	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:40
121 anamorph\$5 with focus with lens ("4214216" "4246548" "4503541" "4504950" "4583226" "4689797" "4730325" "4809288" "4852113" "4866724" "4995047" "4995050" "5012483" "5018831" "5027359" "5033054" "5050180" "5063570" "5163058" "5179548" "5272711" "5297154" "5299219" "5319659" "5392308" 29 "5430748" "5438585" "5485481" "5572542").PN. 5 6212216.URPN.	US-PGPUB; USPAT; IBM_TDB	9/1/04 10:40
1460 fast with slow with axis (((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.) 85 and (fast with slow with axis)	USPAT USPAT	9/1/04 9:10 9/1/04 9:09
21 (beam adj shap\$5) same (fast with slow with axis)	US-PGPUB; USPAT; IBM_TDB	9/1/04 8:12
11408 beam adj shap\$5	US-PGPUB; USPAT; IBM_TDB	9/1/04 8:11
6100 (((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.) ((beam adj shap\$5) same (((spherical or collimat\$5) same cylind\$5) with lens)) and (((359/642,641,668,793-795) or 17 (385/52,31,33,38,34,92-94)).CCLS.)	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	9/1/04 7:43
68 ((359/668).CCLS.) and ((spherical or collimat\$5) same cylind\$5) ((359/668).CCLS.) and ((spherical or collimat\$5) same cylind\$5) 24 and (fiber and (diode or laser or beam))	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB	9/1/04 7:42 9/1/04 7:42
47189 ((spherical or collimat\$5) same cylind\$5)	US-PGPUB; USPAT; IBM_TDB	9/1/04 7:42
7969 ((spherical or collimat\$5) same cylind\$5) with lens (beam adj shap\$5) same (((spherical or collimat\$5) same cylind\$5) 335 with lens) 1 6542314.PN.	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB USPAT US-PGPUB; USPAT; USOCR; IBM_TDB	9/1/04 7:42 9/1/04 7:42 9/1/04 7:41 9/1/04 7:35
217 (359/668).CCLS. 26 4475788.URPN. 15 4564268.URPN. 14 5319496.URPN. ("4180325" "4606622" "5243619" "5294971" "5319496" 8 "5352886" "5825476" "5896194").PN. ("4884281" "5168401" "5243619" "5418880" "5825551" "5887096" "5987794" "6044096" "6151168" "6243210" 11 "6529542" "2002/0015558" "2002/0159156").PN. 6 6151168.URPN. 13 5243619.URPN.	USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT	8/31/04 17:18 8/31/04 17:14 8/31/04 17:10 8/31/04 17:08 8/31/04 17:06 8/31/04 17:05 8/31/04 17:01

9	"4061814" "4738532" "5168401" "5243619" "5369661" "5418880" "5515391" "5517328" "5544184").PN.	USPAT	8/31/04 16:59
	("3396344" "4185891" "4318594" "4530574" "4655590" "4707584" "4763975" "4818062" "4826269" "4978197" "4990741" "5066100" "5120926" "5127068" "5168401" "5258989" "5268978" "5365032" "5463534" "5541951"		
24	"5715270" "5717804" "5886313" "6044096").PN.	USPAT	8/31/04 16:48
	("3396344" "4530574" "4547038" "4822151" "5058981" "5216562" "5369661" "5453814").PN.	USPAT	8/31/04 16:47
8	"3974507" "4203652" "4253735" "4318594" "4530574" "4589115" "4656641").PN.	USPAT	8/31/04 16:44
	("3317267" "3701044" "4203652" "4235507" "4246548" "4253735" "4255717" "4272651" "4280108" "4306278"		
12	"4318594" "4323297").PN.	USPAT	8/31/04 16:41
23	4530574.URPN.	USPAT	8/31/04 16:40
	("3701044" "3974507" "4203652" "4253735" "4255717" "4318594" "4323297" "4530574").PN.		
26	4318594.URPN.	USPAT	8/31/04 16:40
	(collimat\$4 with lens) and (cylindrical with lens) and (diode same fiber same x\$2axis same y\$2axis)	USPAT	8/31/04 16:39
15	1 ("5319528").PN.	US-PGPUB; USPAT; IBM_TDB	8/31/04 16:38
	("3273072" "3590248" "3736518" "4185891" "4293827" "4318594" "4397525" "4475788" "4520471" "4575194" "4609258" "4641912" "4643538" "4681396" "4688884" "4689482" "4701005" "4725131" "4726645" "4732448" "4759616" "4761059" "4763975" "4768184" "4770653" "4791631" "4807954" "4813762" "4901330" "4905690"	IBM_TDB	8/31/04 16:38
32	32 "4922502" "5081637").PN.	USPAT	8/31/04 16:38
	((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.)	US-PGPUB; USPAT; IBM_TDB	8/31/04 16:35
15	and (lens same astigmat\$5 same axis same fiber)		
	("4203652" "4235507" "4318594" "4530574" "4744089" "4951293" "4953166" "5003550" "5088105" "5111153" "5175643" "5237636" "5249190" "5265116" "5270853"		
16	16 "5278851").PN.	USPAT	8/31/04 16:28
19	19 4942583.URPN.	USPAT	8/31/04 16:03
23	23 4530574.URPN.	USPAT	8/31/04 15:59
40	40 4203652.URPN.	USPAT	8/31/04 15:57
	("2303113" "3652150" "3749477" "3751138" "4017160" "4203652" "4253735" "4318594" "4362367" "4530574" "4744073" "5095386" "5181224" "5467335" "5499262"		
19	19 "5844723" "5973853" "6088168" "6088170").PN.	USPAT	8/31/04 15:56
49	49 lens same astigmat\$5 same axis same fiber	US-PGPUB; USPAT; IBM_TDB	8/31/04 15:54

Interference Search History
s/n: 10/700,068
date: 10-18-05

(optical and focal and point and numerical and aperture and fiber
65 and distance).clm.

US-PGPUB; USPAT

10/18/05 19:42